

- ▶ **How Valid is Porosity Prediction from Sonic Velocity for Miocene Carbonates of Sarawak?**, *Nor Sara Izzatti Bashah\**, *Bernard J. Pierson*, and *Zuhar Z.T Harith (UTP)*
- ▶ **Evaluation of Stratigraphy and Facies of the Ravendale Interval in the Central Part of the Darling Basin, NSW (northern Blantyre and southern Pondie Range Sub-basins) based on seismic Data and Well Logs**, *Mohamed Khalifa (UTP)*
- ▶ **Middle Cambrian-upper Cretaceous Tectonostratigraphic Evolution of the Wadi Sirhan Basin, Southeast Jordan**, *Mohamed Khalifa\* (UTP)* and *Abdulkader M. Abed (University of Jordan)*
- ▶ **Choosing the Optimum Seismic Data to Characterize Faults and Fractures Within Crystalline Basement Reservoirs**, *V.W.T. Kong\* (WesternGeco Perth, Australia)* and *C.M. Pang (Schlumberger Data Consulting Services, Malaysia)*
- ▶ **Evaluating Feasibility of Density Reflectivity Estimation with Special Reference to Malaysian Basins**, *Ravi Kant Pathak\** and *Rizal B Bakar (PETRONAS Carigali)*
- ▶ **High Resolution Seismic Inversion Using Combination of Integrated Energy Spectra (Intens) and Maximum-Minimum Seismic Attribute: Shallow Stratton Field Case Study**, *Eko Widi Purnomo\** and *Zuhar Zahir Tuan Harith\* (UTP)*
- ▶ **Mapping of Gas Hydrates from Regional to Local Scales**, *Sanjeev Rajput\**, *Ben Clennell*, and *Tobias Mueller (CSIRO)*
- ▶ **Prospect Evaluation & Geomorphology Identification in the Malay Basin and Adjacent Basins from Views of Seismic Attributes**, *Nor Azhar Ibrahim*, *Shuhadah Basaharudin*, and *Dr. Deva P Ghosh (PETRONAS Research Sdn Bhd)*, *Bernato Viratno* and *Hamdan Mohamad (PETRONAS Carigali)*
- ▶ **The Role of Seismic Preconditioning for AVO Based Seismic Reservoir Characterisation in West Baram Delta**, *Erick Alvarez (Senergy GB)* and *Yeshpal Singh\* (PETRONAS Carigali)*
- ▶ **The Input Data Issues and their Impact on Seismic Reservoir Characterization and Modeling in Carbonate Reservoirs in Central Luconia Province, Offshore Sarawak**, *Noreehan Shahud\** and *Yeshpal Singh (PETRONAS Carigali)*

- ▶ **Stochastic Rock Physics Modelling for Giant Oilfield - Barmer Basin, India**, *Manu Singhal\**, *Mark Beeson*, and *Tim O'Sullivan (Cairn India)*
- ▶ **Examination of the Gas Hydrate Anomalies by AVO Analysis at Western Black Sea, Turkey**, *Sinem Yavuz\** and *Emin Demirbag (Istanbul Technical University)*
- ▶ **Seismic Amplitude Loss Compensation for Future Reservoir Characterization Studies in Peciko Field – Indonesia**, *A. Kusuma\**, *R. Brahmantio*, *F. Bertini*, *J. Dufour*, and *B. Paternoster (TOTAL)*

8:30–12:20 ..... **Oral Presentations**  
Diamond Ballroom

**SESSION 3: CLASTIC CHARACTERIZATION**  
**Session Chairmen:** *Dr. Mazlan Madon (PETRONAS Research)*  
*Sim Chee Hui (ExxonMobil)*

- 8:30–9:00 ..... **Keynote Speaker:** *Martin Paul Bayly (Schlumberger)*
- 9:00–9:25 ..... **A Sand-filled Incised Valley: Clearly Imaged by Seismic and Proven by Well Data – or Is It? A Cautionary Tale from the Malay Basin**, *Duncan Barr\**, *Mark Flynn* and *Ong Cheng Sun (Carigali Hess)*
- 9:25–9:50 ..... **Integrated Analysis of Seismic Attributes and Geological Data; Examples from Angsi Field, Malay Basin**, *David Ince\**, *Asem Mahmoud A Dou Ali* and *Wahyudin Suwarlan (PETRONAS Carigali)*
- 9:50–10:30 ..... **Coffee Break & Poster Session**
- 10:30–10:55 .... **Application of Pre and Post-stack AVO Data Analysis in Fast-turnaround Prospect Screening, a Case Study from West Balingian (offshore Malaysia)**, *Arnout J.W. Everts\* (LEAP Energy)*, *Mohd Reza Lasman (Murphy Sarawak)*, *Mohd Nazaruddin Mokhri (LEAP Energy)*, and *Loic Michel (CGGVeritas)*
- 10:55–11:20 .... **From Inversion Products to Reservoir Properties**, *Michael Kemper\* (Ikcon Science Asia Pacific)*
- 12:20–13:30 .... **Group Lunch**  
Diamond Ballroom
- 13:30–17:00 .... **Oral Presentations**  
Diamond Ballroom

#### SESSION 4: CARBONATE CHARACTERIZATION

**Session Chairmen:** *M. Yamin Ali (PETRONAS Research)*  
*Paul Fejer (HESS)*

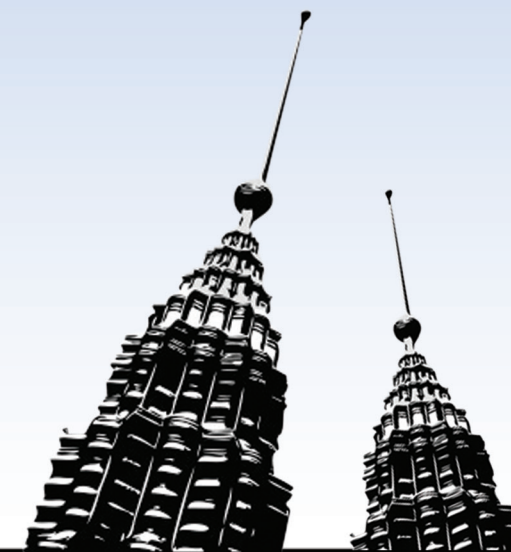
- 13:30–14:00 .... **Keynote Speaker:** *Dr. Bernard Pearson (UTP)*
- 14:00–14:25 .... **Regional Seismic Imaging Link Deepwater Reservoirs Off South/Southeast Asia**, *Roberto Fainstein\** and *Rajesh Kalra (WesternGeco Int.)*
- 14:25–14:50 .... **A Study of the Effects of Carbonate Diagenesis on Imaging and Reservoir Characterization in the Elk/Antelope Gas Field**, *Louise Hombo\**, *Adrian Goldberg*, *Okaro Yogi*, *Moyra Wilson*, and *David Holland (InterOil)*
- 14:50–15:30 .... **Coffee Break & Poster Session**
- 15:30–15:55 .... **Fractures Delineation on Permian Carbonate Reservoir Utilizing Post-stack Seismic Enhancement and Fracture Attributes**, *Nang Nuan Field*, *Chumphon Basin, Thailand*, *Rusdinadar Sigit\**, *Hiroyuki Seki*, *Yuji Kurata*, *Yasuto Ariga (JX Nippon Oil & Gas)*
- 15:55– 16:20 ... **Seismic Lineament Analysis of a Fractured Limestone Reservoir in the Ujung Pangkah Field**, *Donald Easley* and *Ferry Yustiana\* (Hess Indonesia)* and *Azalea Hidayat (Schlumberger)*
- 16:20–17:00 .... **End of Day Discussions**
- 17:00–18:30 .... **SEG Malaysia Celebration Reception**  
Sultan Lounge

Special thanks to our sponsors.



# SEG WORKSHOP

## Hydrocarbon Reservoir Imaging and Characterization-Issues and Challenges in Southeast Asia



# KUALA LUMPUR

29 November–1 December 2010

# Schedule

## Monday, 29 November

- 15:00–19:00 .... **Registration Check-In**  
Ground Floor Foyer
- 17:00–19:00 .... **Icebreaker Welcome Reception & Addresses**  
Sultan Lounge

## Tuesday, 30 November

- 8:30–17:00 ..... **Poster Presentations**  
Ground Floor Foyer
- ▶ **Scale Model Measurement Facility for Modeling and Characterization of Acoustic Wave Propagation in Seabed,** *Rana Arslan Ali Khan\**, and *Grant Ellis\* (UTP)*
  - ▶ **Statistical Mitigation of Depth Structure Uncertainty Using Multiple Realizations for the Ujung Pangkah Field,** *Donald Easley, Ferry Yustiana, and Willy Briano\* (Hess Indonesia)*
  - ▶ **Application of Elliptic Expansion Velocity Analysis in Seismic Image Processing of JZA Buried Hill,** *ShuChun Cao\* (CNOOC)*
  - ▶ **Processing of 4C-2D OBC Reflection Seismic Data from the Southern Gulf of Mexico (Oil Field Cantarell) Using a New Way for Stacking of Reflected Converted Waves,** *D. Garza-Rocha\* (Facultad de Ciencias de La Tierra - Mexico), W. Rabbel (University of Kiel, Germany), A.A. González-Roque (Haliburton, Mexico), and M. Vásquez-García (PEMEX, Mexico)*
  - ▶ **3D AVO Volume Visualisation in Identifying Hydrocarbon Leads in Offshore Sarawak,** *M Firdaus M Halim, Shaidin Arshad, Ahmad Riza Ghazali, and Dr. M K Sengupta (PETRONAS Research)*
  - ▶ **A New Proposed Algorithm to Estimate Attenuation Using Frequency Shift Methods,** *Maman Hermana, Zuhar Zahir, Tuan Harith (UTP)*
  - ▶ **Advancement of Geophysical Technology Adding Value in Oil and Gas Exploration and Development,** *Salbiah Isa and Dr. Deva Ghosh (PETRONAS Research)*
  - ▶ **A Pragmatic Approach to Time-to-Depth Conversion of a Prospect with Near-surface Velocity Anomalies,** *M. Kanaree\*, L. Schulte, and M. Flynn (Carigali Hess)*

- ▶ **Crosswell Seismic & Crosswell Electromagnetics: Technologies for Enhanced Reservoir Imaging & Characterisation,** *Ajay Nalonnil\*, Mike Zuber, Mike Sanders, and Sanjeev Dogra (Schlumberger)*
- ▶ **Advanced Imaging Solutions in Deepwater Sabah, Malaysia,** *Chris Haneveld, Abdul Ghani, and Mohd. Nazeri\* (Shell Malaysia)*
- ▶ **2D Finite Difference Seismic Modeling,** *Haziqah Othman and M Firdaus Abdul Halim (PETRONAS Research Sdn Bhd)*
- ▶ **Reprocessing Old CSEM Data for Improved Depth Analysis,** *Håkon T. Pedersen\* (EMGS Asia Pacific)*
- ▶ **Dual-sensor Towed Streamer Acquisition: the Seismic Solution for Imaging and Reservoir Characterization?** *Cyrille Reiser\* and Folke Engelmarm (Petroleum Geo-Services)*
- ▶ **Improving the Imaging and Characterization of Hydrocarbon Reservoir in Complex Geological Settings (fold and thrust belts) Using Integrated Geophysical, Well Log and Core Data,** *Vinay K. Sahay\* (MEPL, India)*
- ▶ **Full 3D Inversion of Marine CSEM and MT Data on PCs,** *Yutaka Sasaki\* (Kyushu University, Japan)*
- ▶ **Petrophysical Imaging by Wavelet Transform,** *Sunjay Sunjay (Ph.D. Research Scholar, Exploration Geophysics, BHU, Varanasi, India)*
- ▶ **Seismic Imaging Below Shallow Gas Cloud – A Comparison Between PSTM, PSDM & 4C0BC Datasets,** *Boon Hua Tan\* (PEG, PETRONAS Carigali)*
- ▶ **Structural Styles and Reservoir Distribution in a Typical Deepwater Niger Delta Field,** *Adeoti Lukumon and Adams Luqman (University of Lagos, Nigeria) and Igiri Tobin\* (Chevron Nigeria)*
- ▶ **ROV-Free Autonomous Marine Seismic Recording,** *Steve McIntosh and Chris Walker\* (FairfieldNodal)*

8:30–12:20 ..... **Oral Presentations**  
Diamond Ballroom

**SESSION 1: TIME IMAGING**  
*Session Chairmen: Dr. M. Farouki (PGS)*  
*Low Cheng Foo (PETRONAS)*

- 8:30–9:00 ..... **Keynote Speaker: Dr. Deva Ghosh** (PETRONAS Research)
- 9:00–9:25 ..... **Broadband Marine Seismic – Breaking the Limits,** *Robert Soubaras and Carl Notfors\* (CGGVeritas)*
- 9:25–9:50 ..... **How Seismic Reprocessing Changed Our View of Prospectivity in a Block in the Malay Basin,** *R.K. Quinn and S.C. Wong (Talisman Malaysia Limited)*
- 9:50–10:30..... **Coffee Break & Poster Session**
- 10:30–10:55 .... **Imaging Under Shallow Gas at Sepat Field: OBC Survey-design and Attenuation Case Study,** *Alvaro Chaveste and James Gaiser\* (Geokinetics Inc.) and Low Cheng Foo, Mehmet Ferruh Akalin, Sandeep K. Chandola, Subodh Kumar, and Tang Wai Hoong (PETRONAS)*
- 10:55–11:20 .... **Reservoir Optimization and Increasing Ultimate Oil Recovery Using 4D4C Seismic Permanent Reservoir Monitoring,** *Samir N. Seth\*, Steve Maas, Brett Bunn, and Rick Metzbowwer (PGS)*
- 11:20–12:20 .... **Panel Discussion**
- 12:20–13:30 .... **Group Lunch**  
Diamond Ballroom
- 13:30–17:00 .... **Oral Presentations**  
Diamond Ballroom
- SESSION 2: DEPTH IMAGING**  
*Session Chairmen: Graham Hodgkiss (CGGVeritas)*  
*James Tomlinson (OHMRSI)*

- 13:30–14:00 .... **Keynote Speaker: Dr. Don Pham** (CGGVeritas)
- 14:00–14:25 .... **Improved Seismic Imaging at Kebabangan Field, Offshore Sabah, Malaysia: New Insight About the Complexity of a Gas Chimney and Implications for Drilling Geohazards,** *Vivian Cathey\* (Kebabangan Petroleum Operating Company), Chee-Khiong Luk (Sarawak Shell Berhad), Chris Haneveld, (Sarawak Shell Berhad)*

- 14:25–14:50 .... **Application of PSDM Imaging for Reservoir Characterization in the Northern Malay Basin – A Case Study,** *Mark Flynn\* (Carigali Hess), Loic Michel, and Chee Hau Hoo (Hampson Russell)*
- 14:50–15:30 .... **Coffee Break & Poster Session**
- 15:30–15:55 .... **Imaging Workflow for Compensating Attenuation Due to Shallow Gas,** *Kefeng Xin, Yi Xie, and Barry Hung\* (CGGVeritas Singapore)*
- 15:55– 16:20 ... **CSEM in Shallow Water; A New Frontier,** *Håkon T. Pedersen\*, M. Akmal Affendi B. Adnan, and Azani B. A. Manaf, (PETRONAS)*
- 16:20–17:00 .... **End of Day Discussion**
- 19:00–21:00 .... **Group Dinner**  
Emerald Room

## Wednesday, 1 December

- 8:30–17:00 ..... **Poster Presentations**  
Ground Floor Foyer
- ▶ **The Effects of Deposition Environment on the Rock Properties in Malay Basin,** *Uzir Alimat and Shaidin Arshad (PETRONAS Research)*
  - ▶ **Clastic Reservoir Facies Analysis Using Integrated Seismic Attributes,** *Ainul Rubizah Ariffin, Ji Ping, and Zuhar Zahir Harith (PETRONAS Carigali)*
  - ▶ **CO<sub>2</sub> Sequestration Monitoring Using P-wave Velocity Data and AVO Analysis at Different Bedding Orientation,** *Hammad Hazim Bin Mohd Azhar\* (Universiti Teknologi Petronas)*
  - ▶ **Reservoir Characterisation of the Mio-Pliocene Reservoirs of PM301 in the North Malay Basin,** *S. Carney, I. Abdul Aziz\*, W. Martins , A. Low, and J. Kennedy (Hess Oil & Gas Sdn. Bhd)*
  - ▶ **Application of Seismic Attributes in 4D Seismic to Detect Changes in Pressure and Saturation,** *Shuhadah Basaharudin and M Firdaus M Halim (PETRONAS Research)*